

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	"5822780".PN.	USPAT	OR	OFF	2003/02/28 09:37
S2	1	"5813005".PN.	USPAT	OR	OFF	2003/02/28 09:38
S3	1	"5625815".PN.	USPAT	OR	OFF	2003/02/28 09:39
S4	1	"5551027".PN.	USPAT	OR	OFF	2003/02/28 09:39
S5	1	"5548761".PN.	USPAT	OR	OFF	2003/02/28 09:40
S6	1	"5544313".PN.	USPAT	OR	OFF	2003/02/28 09:40
S7	1	"5544313".PN.	USPAT	OR	OFF	2003/02/28 09:41
S8	1	"5544313".PN.	USPAT	OR	OFF	2003/02/28 09:41
S9	1	"5524257".PN.	USPAT	OR	OFF	2003/02/28 09:41
S10	1	"5515531".PN.	USPAT	OR	OFF	2003/02/28 09:42
S11	1	"5504894".PN.	USPAT	OR	OFF	2003/02/28 09:42
S12	1	"5283897".PN.	USPAT	OR	OFF	2003/02/28 09:43
S13	135	(709/1).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2002/04/24 09:54
S14	15107	("709").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2002/04/23 10:08
S15	2089	virtual adj machine	US-PGPUB; USPAT	OR	ON	2002/04/16 13:29
S16	778	((("709"/\$).CCLS.) and (virtual adj machine )	US-PGPUB; USPAT	OR	ON	2002/04/16 13:29
S17	20	((("709"/\$).CCLS.) and (virtual adj machine )) and (predefined adj class)	US-PGPUB; USPAT	OR	ON	2002/04/16 13:30
S18	12	((("709"/\$).CCLS.) and (virtual adj machine )) and (get adj command)	US-PGPUB; USPAT	OR	ON	2002/04/16 13:54
S19	141	((("709"/\$).CCLS.) and (virtual adj machine )) and (memory adj management)	US-PGPUB; USPAT	OR	ON	2002/04/16 13:56
S20	91	((("709"/\$).CCLS.) and (virtual adj machine )) and (memory adj management)) and class	US-PGPUB; USPAT	OR	ON	2002/04/16 13:56
S21	0	"l91" and http	US-PGPUB; USPAT	OR	ON	2002/04/16 13:56
S22	11	(((((("709"/\$).CCLS.) and (virtual adj machine )) and (memory adj management)) and class) and http	US-PGPUB; USPAT	OR	ON	2002/04/16 14:05
S23	0	((("709"/\$).CCLS.) and (virtual adj machine )) and (removal adj class)	US-PGPUB; USPAT	OR	ON	2002/04/16 14:06

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S24	9	((("709"/\$).CCLS.) and (virtual adj machine )) and (minimal adj resourc\$)	US-PGPUB; USPAT	OR	ON	2002/04/16 14:13
S25	5	((709/1).CCLS.) and (class adj loader)	US-PGPUB; USPAT	OR	ON	2002/04/16 14:19
S26	3	((709/1).CCLS.) and (class adj structure)	US-PGPUB; USPAT	OR	ON	2002/04/16 14:31
S27	3	"netaddr"	US-PGPUB; USPAT	OR	ON	2002/04/16 14:23
S28	22	((709/1).CCLS.) and (memory adj manag\$)	US-PGPUB; USPAT	OR	ON	2002/04/16 14:33
S29	2	((("709"/\$).CCLS.) and (virtual adj machine )) and (threshold adj level)	USPAT	OR	OFF	2002/04/16 15:02
S30	645	http adj (client server)	USPAT	OR	OFF	2002/04/16 15:02
S31	0	((709/1).CCLS.) and (http adj (client server))	USPAT	OR	OFF	2002/04/16 15:03
S32	109	predefined adj class	USPAT	OR	OFF	2002/04/16 15:03
S33	0	(predefined adj class) and (http adj (client server))	USPAT	OR	OFF	2002/04/16 15:04
S34	16	(virtual adj machine ) and (predefined adj class)	USPAT	OR	OFF	2002/04/16 15:11
S35	136	class adj loader	USPAT	OR	OFF	2002/04/16 15:32
S36	0	(predefined adj class) and (class adj loader)	USPAT	OR	OFF	2002/04/16 15:32
S37	334	class adj structure	USPAT	OR	OFF	2002/04/16 15:32
S38	0	(class adj loader) and ((predefined adj class) and (class adj loader))	USPAT	OR	OFF	2002/04/16 15:33
S39	92	(virtual adj machine ) and (class adj loader)	USPAT	OR	OFF	2002/04/16 15:33
S40	7	(class adj structure) and ((virtual adj machine ) and (class adj loader))	USPAT	OR	OFF	2002/04/16 15:58
S41	3484	url	USPAT	OR	OFF	2002/04/16 15:59
S42	0	url and "I36"	USPAT	OR	OFF	2002/04/16 15:59
S43	37	url and (class adj loader)	USPAT	OR	OFF	2002/04/16 17:28
S44	20823	cache	USPAT	OR	OFF	2002/04/16 17:28
S45	32	((709/1).CCLS.) and cache	USPAT	OR	OFF	2002/04/17 09:52
S46	15107	("709").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2002/04/17 09:53
S47	2993	((("709"/\$).CCLS.) and cache	US-PGPUB; USPAT	OR	ON	2002/04/17 09:53

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S48	244	((("709"/\$).CCLS.) and cache) and (virtual adj machine)	US-PGPUB; USPAT	OR	ON	2002/04/17 09:54
S49	65	((("709"/\$).CCLS.) and cache) and (virtual adj machine)) and threshold	US-PGPUB; USPAT	OR	ON	2002/04/17 09:55
S50	15248	("709").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2002/04/23 10:09
S51	10349	terminal adj device	US-PGPUB; USPAT	OR	ON	2002/04/23 10:10
S52	432	((("709"/\$).CCLS.) and (terminal adj device)	US-PGPUB; USPAT	OR	ON	2002/04/23 10:10
S53	2695	class adj object	US-PGPUB; USPAT	OR	ON	2002/04/23 10:11
S54	5	((("709"/\$).CCLS.) and (terminal adj device)) and (class adj object)	US-PGPUB; USPAT	OR	ON	2002/04/23 10:29
S55	1126	handheld adj device	US-PGPUB; USPAT	OR	ON	2002/04/23 10:30
S56	14	(handheld adj device) and (class adj object) and (("709"/\$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/04/23 11:08
S57	16522	class adj structure loader	US-PGPUB; USPAT	OR	ON	2002/04/23 11:09
S58	564	((("709"/\$).CCLS.) and (class adj structure loader)	US-PGPUB; USPAT	OR	ON	2002/04/23 11:09
S59	46	((("709"/\$).CCLS.) and (class adj structure loader)) and (memory adj manager)	US-PGPUB; USPAT	OR	ON	2002/04/23 11:39
S60	4	((("709"/\$).CCLS.) and (class adj structure loader)) and (memory same purge\$)	US-PGPUB; USPAT	OR	ON	2002/04/23 11:49
S61	1	((("709"/\$).CCLS.) and (class adj structure loader)) and (http adj client)	US-PGPUB; USPAT	OR	ON	2002/04/23 11:51
S62	90	((("709"/\$).CCLS.) and (class adj structure loader)) and (http)	US-PGPUB; USPAT	OR	ON	2002/04/24 12:00
S63	66	cache adj algorithm	US-PGPUB; USPAT	OR	ON	2002/04/23 17:37
S64	335	memory adj optimiz\$	US-PGPUB; USPAT	OR	ON	2002/04/23 17:38
S65	15248	("709").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2002/04/23 17:38
S66	18	(memory adj optimiz\$) and (("709"/\$).CCLS.)	US-PGPUB; USPAT	OR	ON	2002/04/23 17:38
S67	373	class same virtual adj machine	US-PGPUB; USPAT	OR	ON	2002/04/24 09:54

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S68	1	resouce and (class same virtual adj machine)	US-PGPUB; USPAT	OR	ON	2002/04/24 09:55
S69	1	("6366898").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2002/04/24 12:00
S70	76	(purg\$4 or evict\$5 or (cast\$3 near1 out\$1) or lru or mru or (least near1 recently near1 used) or (most near1 recently near1 used) or dismiss\$4 or remov\$4 or expell\$4) adj5 (class or classes) and ("709"/\$.ccls. or "717"/\$.ccls. or "711"/\$.ccls.) and (object\$1 near2 orient\$4)	US-PGPUB; USPAT	OR	ON	2002/04/24 12:59
S71	32	(purg\$4 or evict\$5 or (cast\$3 near1 out\$1) or lru or mru or (least near1 recently near1 used) or (most near1 recently near1 used) or dismiss\$4 or remov\$4 or expell\$4) adj5 (class or classes) and ("709"/\$.ccls. or "717"/\$.ccls. or "711"/\$.ccls.) and (object\$1 near2 orient\$4) and stack	US-PGPUB; USPAT	OR	ON	2002/04/24 13:31
S72	1	("6345288").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2002/04/24 13:16
S73	1	("6088717").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2002/04/24 13:16
S74	11	(purg\$4 or evict\$5 or (cast\$3 near1 out\$1) or lru or mru or (least near1 recently near1 used) or (most near1 recently near1 used) or dismiss\$4 or remov\$4 or expell\$4) adj5 (class or classes) and ("709"/\$.ccls. or "717"/\$.ccls. or "711"/\$.ccls.) and (object\$1 near2 orient\$4) and stack and cache	US-PGPUB; USPAT	OR	ON	2002/04/24 15:30
S75	13	(purg\$4 or evict\$5 or (cast\$3 near1 out\$1) or lru or mru or (least near1 recently near1 used) or (most near1 recently near1 used) or dismiss\$4 or remov\$4 or expell\$4) adj5 (class or classes) and ("709"/\$.ccls. or "717"/\$.ccls. or "711"/\$.ccls.) and (object\$1 near2 orient\$4) and threshold	US-PGPUB; USPAT	OR	ON	2002/04/24 15:54

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S76	13	(purg\$4 or evict\$5 or (cast\$3 near1 out\$1) or lru or mru or (least near1 recently near1 used) or (most near1 recently near1 used) or dismiss\$4 or remov\$4 or expell\$4) adj5 (class or classes) and ("709"/\$.ccls. or "717"/\$.ccls. or "711"/\$.ccls.) and (object\$1 near2 orient\$4) and idle	US-PGPUB; USPAT	OR	ON	2002/04/24 15:56
S77	5747	cach\$3 same (replac\$5 or evict\$4 or purg\$3 or remov\$4)	US-PGPUB; USPAT	OR	ON	2002/04/26 14:28
S78	119	cach\$3 same (replac\$5 or evict\$4 or purg\$3 or remov\$4) same idle	US-PGPUB; USPAT	OR	ON	2002/04/26 17:21
S79	1	("0207097").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2002/04/26 17:22
S80	1	("0207152").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2002/04/26 17:22
S81	2091	cache and (least adj recently adj used)	US-PGPUB; USPAT	OR	ON	2002/04/30 10:46
S82	169	cache and (least adj recently adj used) and (web)	US-PGPUB; USPAT	OR	ON	2002/09/19 17:07
S83	65259	cache and (least adj recently adj used) and (web) and (object) and (threshold) or (idle)	US-PGPUB; USPAT	OR	ON	2002/04/30 10:48
S84	136	cache and (least adj recently adj used) and (web) and (object)	US-PGPUB; USPAT	OR	ON	2002/04/30 11:04
S85	104	cache and (least adj recently adj used) and (web) and (object) and (client)	US-PGPUB; USPAT	OR	ON	2002/04/30 11:06
S86	9	cache and (least adj recently adj used) and (web) and (object) and (client) and (virtual adj machine)	US-PGPUB; USPAT	OR	ON	2002/04/30 11:21
S87	58	cache and (least adj recently adj used) and (web) and (object) and (client) and http	US-PGPUB; USPAT	OR	ON	2002/04/30 11:21
S88	1	("5636355").PN.	USPAT; USOCR	OR	OFF	2002/09/19 17:06
S89	0	(minimiz\$3 adj10 memory) and (minimiz\$3 adj10 (class adj loading))	US-PGPUB; USPAT	OR	ON	2002/09/19 17:08
S90	5797	minimiz\$3 adj10 memory	US-PGPUB; USPAT	OR	ON	2002/09/19 17:08
S91	1	(minimiz\$3 adj10 memory) and (class adj5 loading)	US-PGPUB; USPAT	OR	ON	2002/09/19 17:11
S92	90	(minimiz\$3 adj10 memory) and (minimiz\$3 same class)	US-PGPUB; USPAT	OR	ON	2002/09/19 17:11

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S93	0	(minimiz\$3 adj10 memory) and (minimiz\$3 same (class adj loading))	US-PGPUB; USPAT	OR	ON	2002/09/19 17:11
S94	24	(minimiz\$3 adj10 memory) and (class adj4 activit\$3)	US-PGPUB; USPAT	OR	ON	2002/09/19 17:15
S95	6	(minimiz\$3 adj10 memory) and (class with loader)	US-PGPUB; USPAT	OR	ON	2002/09/19 17:21
S96	2	(minimiz\$3 adj10 memory) and (class with loader) and activit\$3	US-PGPUB; USPAT	OR	ON	2002/09/19 17:18
S97	0	(minimiz\$4 same (loader adj4 activit\$3))	US-PGPUB; USPAT	OR	ON	2002/09/19 17:22
S98	2	(minimiz\$4 same (network adj4 activit\$3)) and (class adj4 loader)	US-PGPUB; USPAT	OR	ON	2002/09/19 17:24
S99	0	(minimiz\$3 same (load\$3 adj4 activit\$3))	US-PGPUB; USPAT	OR	ON	2002/09/19 17:24
S10 0	0	((class adj4 loader) with activit\$3)	US-PGPUB; USPAT	OR	ON	2002/09/19 17:25
S10 1	1	((class adj4 loader) same activit\$3)	US-PGPUB; USPAT	OR	ON	2002/09/19 17:25
S10 2	261	((class adj4 loader))	US-PGPUB; USPAT	OR	ON	2002/09/19 17:25
S10 3	39	((class adj4 loader)) and (minimiz\$3) and (activit\$3)	US-PGPUB; USPAT	OR	ON	2002/09/20 10:21
S10 4	364	(class) and (loader) and (minimiz\$3) and (activit\$3)	US-PGPUB; USPAT	OR	ON	2002/09/20 10:22
S10 5	67	((class) same (loader)) and (minimiz\$3) and (activit\$3)	US-PGPUB; USPAT	OR	ON	2002/09/20 10:24
S10 6	39	(jvm) and (minimiz\$3) and (activit\$3)	US-PGPUB; USPAT	OR	ON	2002/09/20 10:25
S10 7	5	(jvm) and (minimiz\$3) and (activit\$3) and (class same loader)	US-PGPUB; USPAT	OR	ON	2002/09/20 10:35
S10 8	67	(minimiz\$3) and (activit\$3) and (class same loader)	US-PGPUB; USPAT	OR	ON	2002/09/20 10:36
S10 9	67	(minimiz\$3 or lowest) and (activit\$3) and (class same loader)	US-PGPUB; USPAT	OR	ON	2002/09/20 10:50
S11 0	2	(minimiz\$3 same activit\$3) and (class same loader)	US-PGPUB; USPAT	OR	ON	2002/09/20 10:55
S11 1	4373	(minimiz\$3 same activit\$3) and (load\$3)	US-PGPUB; USPAT	OR	ON	2002/09/20 10:55
S11 2	1665	(minimiz\$3 same activit\$3) and (load\$3) and (class)	US-PGPUB; USPAT	OR	ON	2002/09/20 10:55
S11 3	27	(minimiz\$3 same activit\$3) and (class adj10 load\$3)	US-PGPUB; USPAT	OR	ON	2002/09/20 11:03

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S11 4	1	(minimiz\$3 same activit\$3) and (class) and (load\$3) and (jvm)	US-PGPUB; USPAT	OR	ON	2002/09/20 11:03
S11 5	67	(minimiz\$3 same activit\$3) and (class) and (load\$3) and ("709"/\$.cls.)	US-PGPUB; USPAT	OR	ON	2002/09/20 11:03
S11 6	2	((("4633387") or ("6055526"))).PN.	USPAT; USOCR	OR	OFF	2002/09/23 15:30
S11 7	1	("5636355").PN.	USPAT; USOCR	OR	OFF	2002/09/23 16:15
S11 8	1	("6134583").PN.	USPAT; USOCR	OR	OFF	2002/09/23 16:15
S11 9	2	((("4633387") or ("6055526"))).PN.	USPAT; USOCR	OR	OFF	2002/09/24 15:35
S12 0	0	("(virtualadj2machine)and(memorynear5purg\$4)").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/01/15 16:06
S12 1	16	(virtual adj2 machine) and (memory near5 purg\$4)	US-PGPUB; USPAT	OR	ON	2003/01/15 17:09
S12 2	818	memory near5 purg\$4	US-PGPUB; USPAT	OR	ON	2003/01/15 16:11
S12 3	141	(memory near5 purg\$4) and class and load\$3	US-PGPUB; USPAT	OR	ON	2003/01/15 16:12
S12 4	8	(memory near5 purg\$4) and class and load\$3 and (lru or (least near3 recent\$2))	US-PGPUB; USPAT	OR	ON	2003/01/15 16:16
S12 5	159	(memory near5 (purg\$4 or collect\$3 or arrang\$3)) and class and load\$3 and (lru or (least near3 recent\$2))	US-PGPUB; USPAT	OR	ON	2003/01/15 16:17
S12 6	0	(memory near5 (purg\$4 or collect\$3 or arrang\$3)) and class and load\$3 and (lru or (least near3 recent\$2)) and minimiz\$3	US-PGPUB; USPAT	OR	ON	2003/01/15 16:17
S12 7	104	(memory near5 (purg\$4 or collect\$3 or arrang\$3)) and class and load\$3 and (lru or (least near3 recent\$2)) and minimiz\$3	US-PGPUB; USPAT	OR	ON	2003/02/26 11:27
S12 8	28	(memory near5 (purg\$4 or collect\$3 or arrang\$3)) and class and load\$3 and (lru or (least near3 recent\$2)) and minimiz\$3 and (convert\$3 near5 format\$3)	US-PGPUB; USPAT	OR	ON	2003/01/15 16:25
S12 9	80	(memory near5 (purg\$4 or collect\$3 or arrang\$3)) and class and load\$3 and (lru or (least near3 recent\$2)) and minimiz\$3 and (format\$3)	US-PGPUB; USPAT	OR	ON	2003/01/15 16:41

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S13 0	50	(virtual adj2 machine) and class and load\$3 and (lru or (least near3 recent\$2)) and minimiz\$3 and (format\$3)	US-PGPUB; USPAT	OR	ON	2003/01/15 16:44
S13 1	30	(virtual adj2 machine) and class and load\$3 and (lru or (least near3 recent\$2)) and minimiz\$3 and (format\$3) and predefin\$3	US-PGPUB; USPAT	OR	ON	2003/01/15 16:45
S13 2	11	(virtual adj2 machine) and (class with load\$3) and (lru or (least near3 recent\$2)) and (re\$format\$3)	US-PGPUB; USPAT	OR	ON	2003/01/15 16:47
S13 3	24	(virtual adj2 machine) and (class with load\$3) and (re\$format\$3)	US-PGPUB; USPAT	OR	ON	2003/01/15 17:08
S13 4	24	(jvm or virtual adj2 machine) and (class with load\$3) and (re\$format\$3)	US-PGPUB; USPAT	OR	ON	2003/01/15 17:09
S13 5	11	(jvm) and (class) and object and load\$3 and (re\$format\$3)	US-PGPUB; USPAT	OR	ON	2003/01/15 17:11
S13 6	5	(jvm) and (class near5 object) and load\$3 and (re\$format\$3)	US-PGPUB; USPAT	OR	ON	2003/01/15 17:13
S13 7	11	(jvm) and load\$3 and (re\$format\$3)	US-PGPUB; USPAT	OR	ON	2003/01/15 17:13
S13 8	33	(jvm or (java adj2 machine)) and load\$3 and (re\$format\$3)	US-PGPUB; USPAT	OR	ON	2003/01/15 17:19
S13 9	855	(jvm or (java adj2 machine)) and load\$3 and (format\$3)	US-PGPUB; USPAT	OR	ON	2003/01/15 17:20
S14 0	1092	(jvm or (java adj2 machine)) and load\$3 and (format\$3 or modif\$4 or predefined)	US-PGPUB; USPAT	OR	ON	2003/01/15 17:20
S14 1	685	(jvm or (java adj2 machine)) and load\$3 and ((format\$3 or modif\$4) same (class or object))	US-PGPUB; USPAT	OR	ON	2003/01/15 17:21
S14 2	53	(jvm or (java adj2 machine)) and load\$3 and ((format\$3 or modif\$4) same (class or object)) and (predefin\$3 same format\$3)	US-PGPUB; USPAT	OR	ON	2003/01/15 17:46
S14 3	185	(jvm or (java adj2 machine)) and (class with loader)	US-PGPUB; USPAT	OR	ON	2003/01/15 17:46
S14 4	133	(jvm or (java adj2 machine)) and (class with loader) and (format\$3)	US-PGPUB; USPAT	OR	ON	2003/01/15 17:47
S14 5	24	(jvm or (java adj2 machine)) and (class with loader) and (format\$3) and predefined	US-PGPUB; USPAT	OR	ON	2003/01/15 17:47
S14 6	14	(memory near5 (purg\$4 or collect\$3 or arrang\$3)) and class and load\$3 and (lru or (least near3 recent\$2)) and minimiz\$3 and "712"/\$.cccls.	US-PGPUB; USPAT	OR	ON	2003/02/26 11:53



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S14 7	150	(class adj5 load\$3) and (garbage adj5 collect\$3) and network	US-PGPUB; USPAT	OR	ON	2003/02/26 11:54
S14 8	4	(class adj5 load\$3) and (garbage adj5 collect\$3) and network and "712"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2003/02/26 12:05
S14 9	54	(class adj5 load\$3) and (garbage adj5 collect\$3) and network and "709"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2003/02/26 15:09
S15 0	38	(class adj5 load\$3) and (garbage adj5 collect\$3) and network and http and url	US-PGPUB; USPAT	OR	ON	2003/02/26 14:28
S15 1	16	(class adj5 load\$3) and (garbage adj5 collect\$3) and network and (load\$3 with activit\$3)	US-PGPUB; USPAT	OR	ON	2003/02/26 14:32
S15 2	28	(class adj5 load\$3) and (garbage adj5 collect\$3) and ((network or load\$3) with activit\$3)	US-PGPUB; USPAT	OR	ON	2003/02/26 14:33
S15 3	186	(class adj5 load\$3) and (garbage adj5 collect\$3)	US-PGPUB; USPAT	OR	ON	2003/02/26 14:34
S15 4	29	(class adj5 load\$3) and (garbage adj5 collect\$3) and (lru or (least adj2 used))	US-PGPUB; USPAT	OR	ON	2003/02/26 14:35
S15 5	1	"5974256".PN.	USPAT	OR	OFF	2003/02/26 14:39
S15 6	15	(class adj5 load\$3) and (garbage adj5 collect\$3) and (network same activit\$3)	US-PGPUB; USPAT	OR	ON	2003/02/26 14:42
S15 7	1	"5911069".PN.	USPAT	OR	OFF	2003/02/26 14:56
S15 8	1	"5873105".PN.	USPAT	OR	OFF	2003/02/26 14:56
S15 9	1	"5787431".PN.	USPAT	OR	OFF	2003/02/26 14:56
S16 0	1	"5367685".PN.	USPAT	OR	OFF	2003/02/26 14:57
S16 1	1	"5280613".PN.	USPAT	OR	OFF	2003/02/26 14:57
S16 2	42	(class adj5 load\$3) and (garbage adj5 collect\$3) and network and "707"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2003/02/26 15:34
S16 3	1	"6282702".PN.	USPAT	OR	OFF	2003/02/26 15:10
S16 4	1	"6253215".PN.	USPAT	OR	OFF	2003/02/26 15:11
S16 5	1	"6110226".PN.	USPAT	OR	OFF	2003/02/26 15:11

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S16 6	1	"6081665".PN.	USPAT	OR	OFF	2003/02/26 15:14
S16 7	1	("6289506").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/02/26 15:24
S16 8	1	"5946487".PN.	USPAT	OR	OFF	2003/02/26 15:33
S16 9	1	"5836014".PN.	USPAT	OR	OFF	2003/02/26 15:34
S17 0	118	(class adj5 load\$3) and (garbage adj5 collect\$3) and network and (jvm or (java with machine))	US-PGPUB; USPAT	OR	ON	2003/02/26 15:35
S17 1	24	(class adj5 load\$3) and (garbage adj5 collect\$3) and network and (jvm or (java with machine)) and http and url	US-PGPUB; USPAT	OR	ON	2003/02/26 16:03
S17 2	1	"5812854".PN.	USPAT	OR	OFF	2003/02/26 15:44
S17 3	1	"5768593".PN.	USPAT	OR	OFF	2003/02/26 15:45
S17 4	1	"5664172".PN.	USPAT	OR	OFF	2003/02/26 15:46
S17 5	1	"5590331".PN.	USPAT	OR	OFF	2003/02/26 15:46
S17 6	1	"5581696".PN.	USPAT	OR	OFF	2003/02/26 15:47
S17 7	1	"5375242".PN.	USPAT	OR	OFF	2003/02/26 15:47
S17 8	1	"5946487".PN.	USPAT	OR	OFF	2003/02/26 15:48
S17 9	1	"5836014".PN.	USPAT	OR	OFF	2003/02/26 15:48
S18 0	1	"6170083".PN.	USPAT	OR	OFF	2003/02/26 15:49
S18 1	1	"6131187".PN.	USPAT	OR	OFF	2003/02/26 15:50
S18 2	1	"6003038".PN.	USPAT	OR	OFF	2003/02/26 15:50
S18 3	1	("5848423").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/02/26 16:01
S18 4	0	(class adj5 load\$3) and (garbage adj5 collect\$3) and network and (minimiz\$3 with load\$3) and http and url	US-PGPUB; USPAT	OR	ON	2003/02/26 16:03

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S18 5	2	(class adj5 load\$3) and (garbage adj5 collect\$3) and network and (minimiz\$3 with load\$3)	US-PGPUB; USPAT	OR	ON	2003/02/26 16:04
S18 6	0	(class adj5 load\$3) and (garbage adj5 collect\$3) and network and (minimiz\$3 with activit\$3)	US-PGPUB; USPAT	OR	ON	2003/02/26 16:05
S18 7	150	(class adj5 load\$3) and (garbage adj5 collect\$3) and network	US-PGPUB; USPAT	OR	ON	2003/02/27 08:17
S18 8	1	"5815718".PN.	USPAT	OR	OFF	2003/02/26 16:20
S18 9	1	"5740441".PN.	USPAT	OR	OFF	2003/02/26 16:20
S19 0	1	"5732273".PN.	USPAT	OR	OFF	2003/02/26 16:20
S19 1	1	"5307499".PN.	USPAT	OR	OFF	2003/02/26 16:21
S19 2	1	"5459868".PN.	USPAT	OR	OFF	2003/02/26 16:21
S19 3	1	"5475843".PN.	USPAT	OR	OFF	2003/02/26 16:21
S19 4	158	(class adj5 load\$3) and (garbage adj5 collect\$3) and (virtual adj2 machine)	US-PGPUB; USPAT	OR	ON	2003/02/27 10:46
S19 5	1	"5692047".PN.	USPAT	OR	OFF	2003/02/27 08:31
S19 6	1	"5659751".PN.	USPAT	OR	OFF	2003/02/27 08:32
S19 7	1	"5613120".PN.	USPAT	OR	OFF	2003/02/27 08:32
S19 8	1	"5586328".PN.	USPAT	OR	OFF	2003/02/27 08:33
S19 9	1	("5848423").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/02/27 10:46
S20 0	17	(class adj5 load\$3) and (garbage adj5 collect\$3) and network and (lru or (least adj3 used))	US-PGPUB; USPAT	OR	ON	2003/02/27 12:25
S20 1	29	(class adj5 load\$3) and (garbage adj5 collect\$3) and (lru or (least adj3 used))	US-PGPUB; USPAT	OR	ON	2003/02/27 15:25
S20 2	4	("5787431") or ("5848423") or ("5999732") or ("6295643")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/02/27 15:48
S20 3	1	("6101495").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/02/27 15:49

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S20 5	1	"5813005".PN.	USPAT	OR	OFF	2003/02/27 15:49
S20 6	1	"5625815".PN.	USPAT	OR	OFF	2003/02/27 15:50
S20 7	1	"5551027".PN.	USPAT	OR	OFF	2003/02/27 15:50
S20 8	1	"5548761".PN.	USPAT	OR	OFF	2003/02/27 15:51
S20 9	1	"5544313".PN.	USPAT	OR	OFF	2003/02/27 15:51
S21 0	1	"5544313".PN.	USPAT	OR	OFF	2003/02/27 15:51
S21 1	1	"5524257".PN.	USPAT	OR	OFF	2003/02/27 15:52
S21 2	1	"5504894".PN.	USPAT	OR	OFF	2003/02/27 15:52
S21 3	1	"5283897".PN.	USPAT	OR	OFF	2003/02/27 15:53
S21 4	1	"5283731".PN.	USPAT	OR	OFF	2003/02/27 15:53
S21 5	1	(US-5961582-\$.did.	USPAT	OR	OFF	2002/04/16 14:59
S22 2	1	("6571388").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/12 01:32
S22 3	1	(class near4 load\$3) and (purg\$3 near4 array)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/06/12 01:34
S22 4	2	(class near4 load\$3) and (purg\$3 near4 referenc\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/06/29 23:21
S22 5	4	(class near4 load\$3 near5 purg\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/06/12 01:38
S22 6	1	("6571388").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/29 23:14
S22 7	4	((("4633387") or ("6134583") or ("5636355") or ("5920725")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/29 23:15

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S22 9	26	(class near4 load\$3) and (array near4 referenc\$3) and purg\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/06/29 23:22
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1 Garbage collection on multiprocessors: Task-aware garbage collection in a multi-tasking virtual machine



Sunil Soman, Laurent Daynès, Chandra Krintz

June 2006 **Proceedings of the 2006 international symposium on Memory management ISMM '06**

**Publisher:** ACM Press

Full text available: [pdf\(125.22 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A multi-tasking virtual machine (MVM) executes multiple programs in isolation, within a single operating system process. The goal of a MVM is to improve startup time, overall system throughput, and performance, by effective reuse and sharing of system resources across programs (tasks). However, multitasking also mandates a memory management system capable of offering a guarantee of isolation with respect to garbage collection costs, accounting of memory usage, and timely reclamation of heap reso ...

**Keywords:** java, multi-tasking, resource reclamation, task-aware garbage collection, virtual machine

2 Java without the coffee breaks: a nonintrusive multiprocessor garbage collector



David F. Bacon, Clement R. Attanasio, Han B. Lee, V. T. Rajan, Stephen Smith

May 2001 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2001 conference on Programming language design and implementation PLDI '01**, Volume 36 Issue 5

**Publisher:** ACM Press

Full text available: [pdf\(1.69 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The deployment of Java as a concurrent programming language has created a critical need for high-performance, concurrent, and incremental multiprocessor garbage collection. We present the *Recycler*, a fully concurrent pure reference counting garbage collector that we have implemented in the Jalapeño Java virtual machine running on shared memory multiprocessors.

While a variety of multiprocessor collectors have been proposed and some have been implemented, experimental dat ...

3

DRM, trusted computing and operating system architecture

Jason F. Reid, William J. Caelli

January 2005 **Proceedings of the 2005 Australasian workshop on Grid computing and e-research - Volume 44 ACSW Frontiers '05**

**Publisher:** Australian Computer Society, Inc.

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#### 4 [Proxy compilation of dynamically loaded Java classes with MoJo](#)



Matt Newsome, Des Watson

June 2002 **ACM SIGPLAN Notices , Proceedings of the joint conference on Languages, compilers and tools for embedded systems: software and compilers for embedded systems LCTES/SCOPES '02**, Volume 37 Issue 7

**Publisher:** ACM Press

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Interest in Java implementations for resource-constrained environments such as embedded systems has been tempered by concerns regarding its efficiency. Current native compilers for Java offer dramatic increases in efficiency, but have poor support for dynamically-loaded classes, which are typically served by slow interpreters or JIT compilers, the code-size of this latter utterly mismatching the resource constraints of the system. After a brief survey of Ahead-of-Time compilers for Java, we prese ...

**Keywords:** AOT, JIT, adaptive compilation, ahead-of-time, dynamic class loading, hotspot, just-in-time, native compilation, proxy compilation, remote compilation

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**Keywords:** java, multi-tasking, resource reclamation, task-aware garbage collection, virtual machine

2 [Charles W. Bachman interview: September 25-26, 2004; Tucson, Arizona](#)

Thomas Haigh

January 2006 **ACM Oral History interviews**

Publisher: ACM Press

Full text available: [pdf\(761.66 KB\)](#) Additional Information: [full citation](#), [abstract](#)

Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended high school in East Lansing, Michigan before joining the Army Anti Aircraft Artillery Corp, with which he spent two years in the Southwest Pacific Theater, during World War II. After his discharge from the military, Bachman earned a B.Sc. in Mechanical Engineering in 1948, followed immediately by an M.Sc. in the same discipline, from the University of Pennsylvania. On graduation, he went to work for Do ...


3 [Sharing and protection in a single-address-space operating system](#)

Jeffrey S. Chase, Henry M. Levy, Michael J. Feeley, Edward D. Lazowska

November 1994 **ACM Transactions on Computer Systems (TOCS)**, Volume 12 Issue 4

Publisher: ACM Press

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

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This article explores memory sharing and protection support in Opal, a single-address-space operating system designed for wide-address (64-bit) architectures. Opal threads execute within protection domains in a single shared virtual address space. Sharing is simplified, because addresses are context independent. There is no loss of protection, because addressability and access are independent; the right to access a segment is determined by the protection domain in which a thread executes. T ...

**Keywords:** 64-bit architectures, capability-based systems, microkernel operating systems, object-oriented database systems, persistent storage, protection, single-address-space operating systems, wide-address architectures

#### 4 [Proxy compilation of dynamically loaded Java classes with MoJo](#)



Matt Newsome, Des Watson

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